Fig.1

Constructs for secretion of *S. pombe* hydrophobins

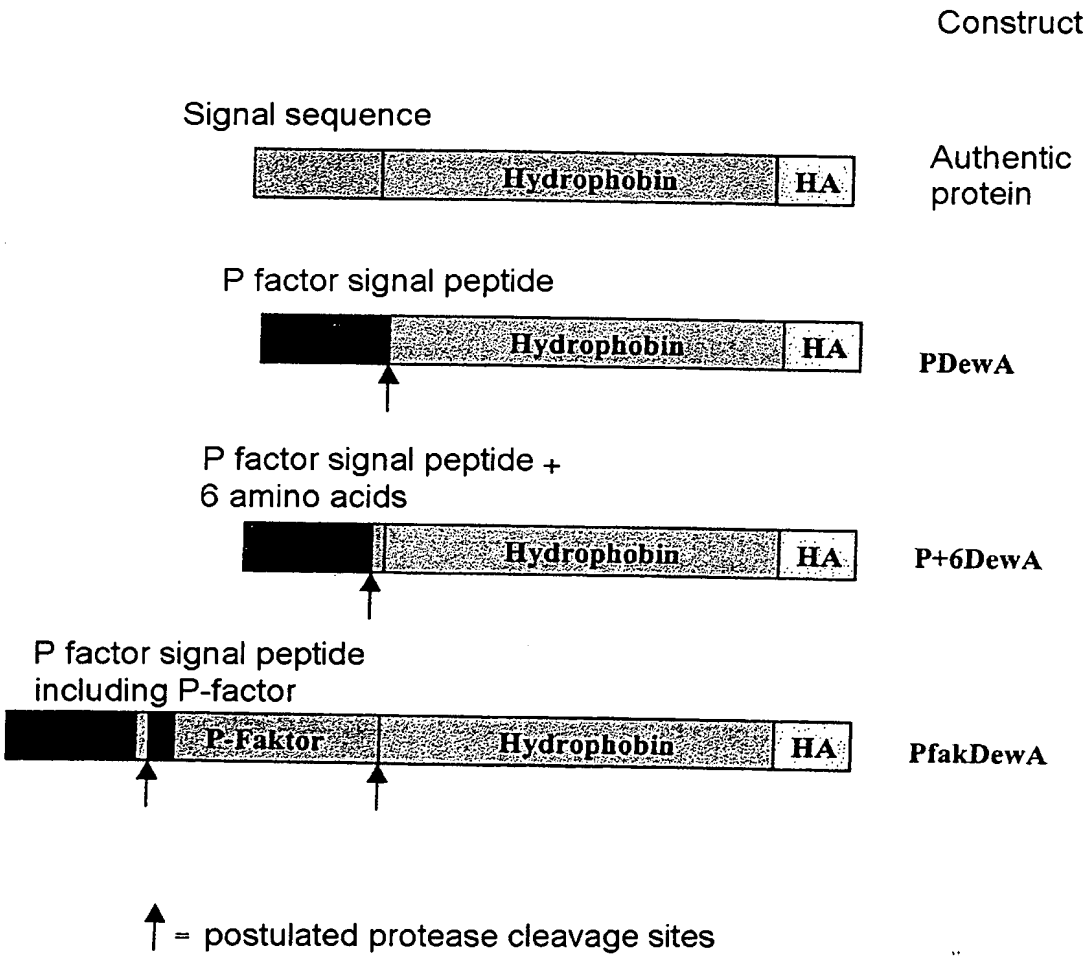

Fig. 2

A) Genomic sequence of the DewA gene:
(the sequenes of the two introns are underlined)

ATGCGCTTCA TCGTCTCTCT CCTCGCCTTC ACTGCCGCGG CCACCGCAAC CGCCCTCCCG
GCCTCTGCCG CAAAGAACGC GAAGCTGGCC ACCTCGGCGG CCTTCGCCAA GCAGGCTGAA
GGCACCACCT GCAATGTCGG CTCGATCGCT TGCTGCAACT CCCCCGCTGA GACCAACAAC
GACAGTCTGT TGAGCGGTCT GCTCGGTGCT GGCCTTCTCA ACGGGCTCTC GGGCAACACT
GGCAGCGCCT GCGCCAAGGC GAGCTTGATT GACCAGCTGG GTCTGCTCGG TACGTGATCC
CCACTCAGTC GCTCCCGGAG AGGCTGAGGG AAGACGAGCG ACGGTCTAGA AATGGTGTGC
TAATAGATGC ATGTGTGCAG CTCTCGTCGA CCACACTGAG GAAGGCCCCG TCTGCAAGAA
CATCGTCGCT TGCTGCCCTG AGGGAACCAC CAACGTACGT CTTTCAGATC TGCTACAAGT
GAGGCGATCA AAACTAACAT ATTCCAGTGT GTTGCCGTCG ACAACGCTGG CGCCGGTACC
AAGGCTGAGT AA

B) Sequence of the *Aspergillus nidulans* DewA protein:

MRFIVSLLAF TAAATATALP ASAAKNAKLA TSAAFAKQAE GTTCNVGSIA CCNSPAETNN
DSLLSGLLGA GLLNGLSGNT GSACAKASLI DQLGLLALVD HTEEGPVCKN IVACCPEGTT
NCVAVDNAGA GTKAE

(**ATGCGCTTCA TCGTCTCTCT CCTCGCCTTC ACTGCCGCGG CCACCGCAAC CGCCCTCCCG**
GCCTCTGCCG CAAAGAACGC GAAGCTGGCC ACCTCGGCGG CCTTCGCCAA GCAGGCTGAA
GGCACCACCT GCAATGTCGG CTCGATCGCT TGCTGCAACT CCCCCGCTGA GACCAACAAC
GACAGTCTGT TGAGCGGTCT GCTCGGTGCT GGCCTTCTCA ACGGGCTCTC GGGCAACACT
GGCAGCGCCT GCGCCAAGGC GAGCTTGATT GACCAGCTGG GTCTGCTCGC TCTCGTCGAC
CACACTGAGG AAGGCCCCGT CTGCAAGAAC ATCGTCGCTT GCTGCCCTGA GGGAACCACC
AACTGTGTTG CCGTCGACAA CGCTGGCGCC GGTACCAAGG CTGAGTAA)

C) Ha-Tag sequence:

LVPRGSIEGR GGRIFYPYDV PDYAGYPYDV PDYAGSYPYD VPDYAAQCGR
(CTGGT TCCGCGTGGA TCCATCGAAG GTCGTGGCGG CCGCATCTTT TACCCATACG
ATGTTCCTGA CTATGCGGGC TATCCCTATG ACGTCCCGGA CTATGCAGGA TCCTATCCAT
ATGACGTTCC AGATTACGCT GCTCAGTGCG GCCGCTAATA G)

Fig.3

A) Sequence of the P-factor pre-protein:

MKITAVIALL FSLAAASPIP VADPGVVSVS KSYADFLRVY QSWNTFANPD RPNLKKREFE AAPAKTYADF LRAYQSWNTF VNPDRPNLKK REFEAAPEKS YADFLRAYHS WNTFVNPDRP NLKKREFEAA PAKTYADFLR AYQSWNTFVN PDRPNLKKRT EEDEENEEED EEYYRFLQFY IMTVPENSTI TDVNITAKFE S

(ATGAAGATCA CCGCTGTCAT TGCCCTTTTA TTCTCACTTG CTGCTGCCTC ACCTATTCCA GTTGCCGATC CTGGTGTGGT TTCAGTTAGC AAGTCATATG CTGATTTCCT TCGTGTTTAC CAAAGTTGGA ACACTTTTGC TAATCCTGAT AGACCCAACT TGAAAAAGCG CGAATTCGAA GCTGCTCCCG CAAAAACTTA TGCTGATTTC CTTCGTGCTT ATCAAAGTTG GAACACTTTT GTTAATCCTG ACAGACCCAA TTTGAAAAAG CGTGAGTTTG AAGCTGCCCC AGAGAAGAGT TATGCTGATT TCCTTCGTGC TTACCATAGT TGGAACACTT TTGTTAATCC TGACAGACCC AACTTGAAAA AGCGCGAATT CGAAGCTGCT CCCGCAAAAA CTTATGCTGA TTTCCTTCGT GCTTACCAAA GTTGGAACAC TTTTGTTAAT CCTGACAGAC CCAACTTGAA AAAGCGCACT GAAGAAGATG AAGAGAATGA GGAAGAGGAT GAAGAATACT ATCGCTTTCT TCAGTTTTAT ATCATGACTG TCCCAGAGAA TTCCACTATT ACAGATGTCA ATATTACTGC CAAATTTGAG AGCTAA)

B) Sequence of the removable signal peptide and of the P-factor pre-protein 6 amino acids downstream thereof:

MKITAVIALL FSLAAASPIP VADPGV

(ATGAAGATCA CCGCTGTCAT TGCCCTTTTA TTCTCACTTG CTGCTGCCTC ACCTATTCCA GTTGCCGATC CTGGTGTG)

C) Sequence utilized for „P shuttle":

MKITAVIALL FSLAAASPIP VADPGVVSVS KSYADFLRVY QSWNTFANPD RPNLKKR

(ATGAAGATCA CCGCTGTCAT TGCCCTTTTA TTCTCACTTG CTGCTGCCTC ACCTATTCCA GTTGCCGATC CTGGTGTGGT TTCAGTTAGC AAGTCATATG CTGATTTCCT TCGTGTTTAC CAAAGTTGGA ACACTTTTGC TAATCCTGAT AGACCCAACT TGAAAAAGCG C)

Fig. 4

Fusion protein comprising the „P-shuttle" sequence, the mature DewA and the C-terminally fused HA-Tag:

MKITAVIALL FSLAAASPIP VADPGVVSVS KSYADFLRVY QSWNTFANPD RPNLKKRLPA SAAKNAKLAT SAAFAKQAEG TTCNVGSIAC CNSPAETNND SLLSGLLGAG LLNGLSGNTG SACAKASLID QLGLLALVDH TEEGPVCKNI VACCPEGTTN CVAVDNAGAG TKAELVPRGS IEGRGGRIFY PYDVPDYAGY PYDVPDYAGS YPYDVPDYAA QCGR

(ATGAAGATCA CCGCTGTCAT TGCCCTTTTA TTCTCACTTG CTGCTGCCTC ACCTATTCCA
GTTGCCGATC CTGGTGTGGT TTCAGTTAGC AAGTCATATG CTGATTTCCT TCGTGTTTAC
CAAAGTTGGA ACACTTTTGC TAATCCTGAT AGACCCAACT TGAAAAAGCG CCTCCCGGCC
TCTGCCGCAA AGAACGCGAA GCTGGCCACC TCGGCGGCCT TCGCCAAGCA GGCTGAAGGC
ACCACCTGCA ATGTCGGCTC GATCGCTTGC TGCAACTCCC CCGCTGAGAC CAACAACGAC
AGTCTGTTGA GCGGTCTGCT CGGTGCTGGC CTTCTCAACG GGCTCTCGGG CAACACTGGC
AGCGCCTGCG CCAAGGCGAG CTTGATTGAC CAGCTGGGTC TGCTCGCTCT CGTCGACCAC
ACTGAGGAAG GCCCCGTCTG CAAGAACATC GTCGCTTGCT GCCCTGAGGG AACCACCAAC
TGTGTTGCCG TCGACAACGC TGGCGCCGGT ACCAAGGCTG AGCTGGTTCC GCGTGGATCC
ATCGAAGGTC GTGGCGGCCG CATCTTTTAC CCATACGATG TTCCTGACTA TGCGGGCTAT
CCCTATGACG TCCCGGACTA TGCAGGATCC TATCCATATG ACGTTCCAGA TTACGCTGCT
CAGTGCGGCC GCTAATAG)

Fig.5

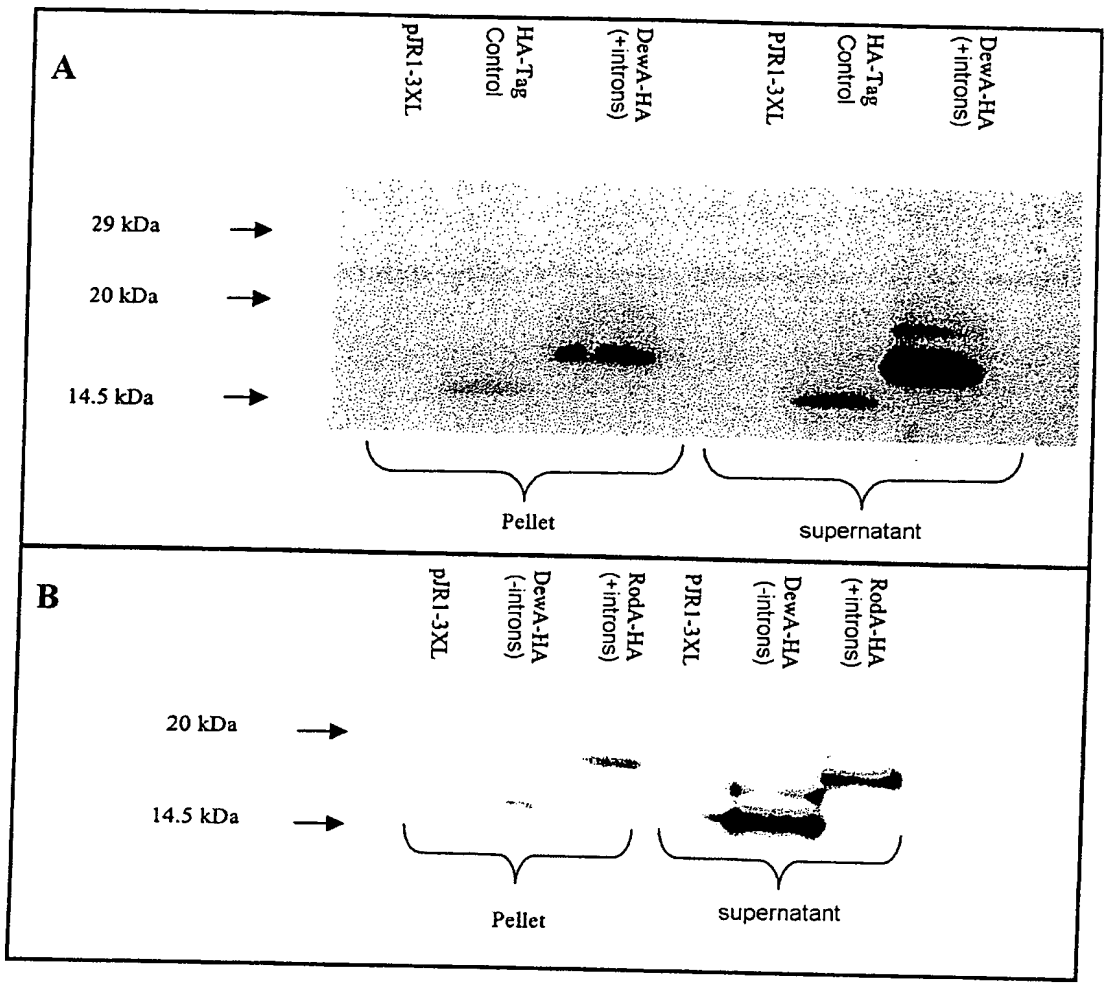

Fig.6

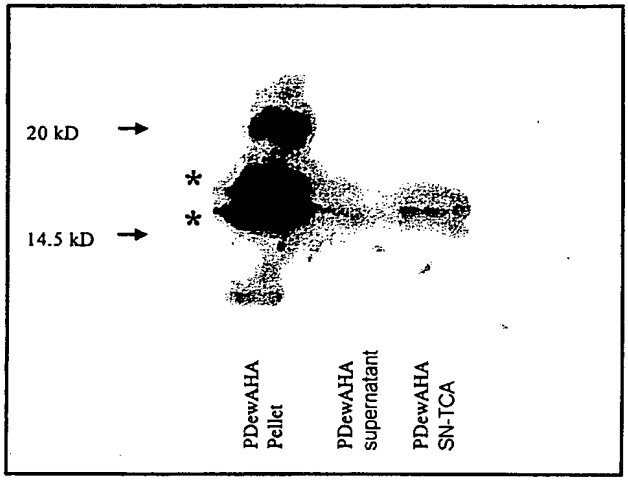

Fig.7

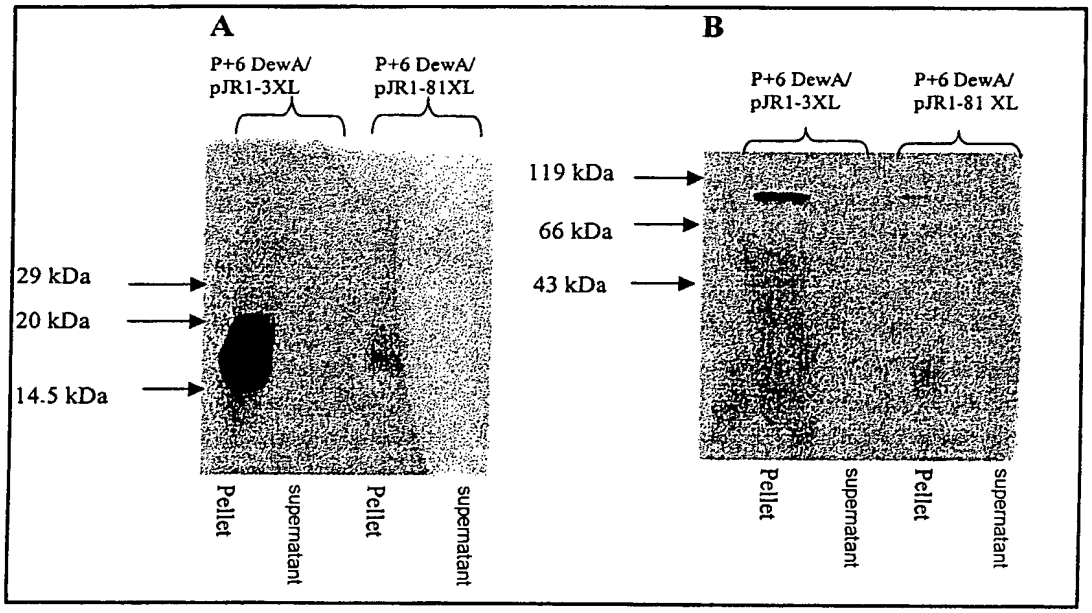

Fig.8

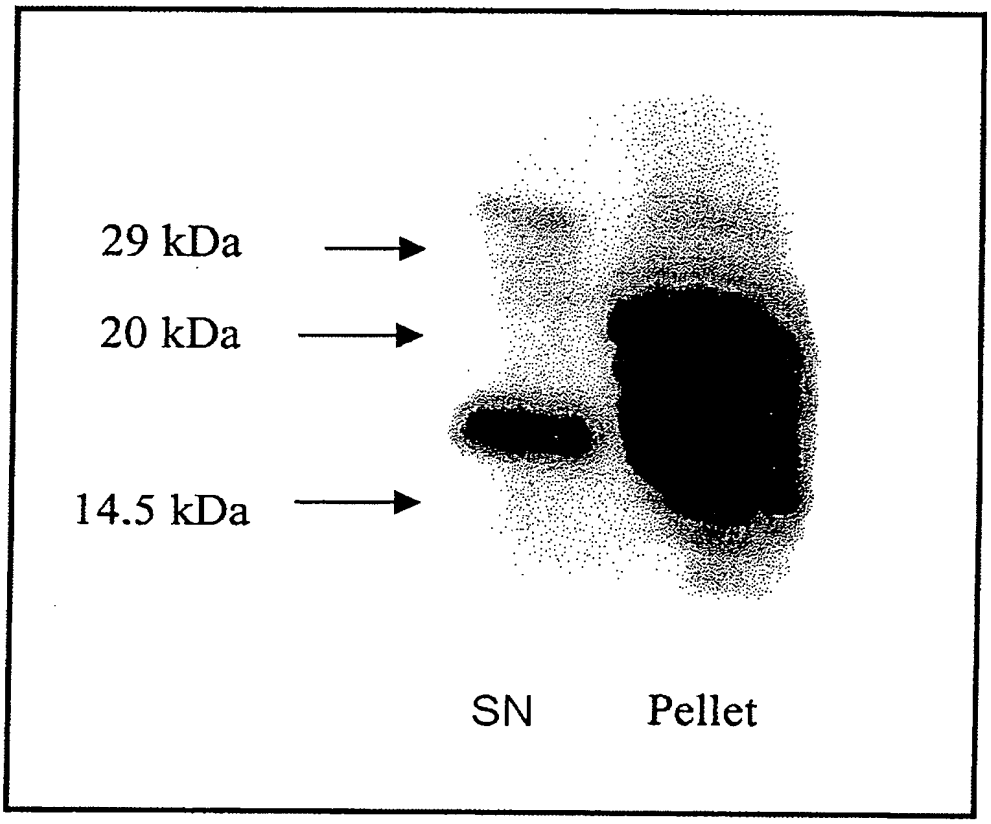

Fig. 9

A) *mfm1*$^+$ gene

Sequence of the mfm1-pre-protein

MDSMANSVSSSSVVNAGNKPAETLNKTVKNYTPKVPYMCVIA

Sequence of the mfm1$^+$-gene

atggactcaa tggctaactc cgtttcttcc tcctctgtcg tcaacgctgg caacaagcct
gctgaaactc ttaacaagac cgttaagaat tatacccccа aggttcctta catgtgtgtc attgcataa

mfm1 mature M-pheromone

YTPKVPYMC

DNA-Sequence of the mature mfm1 M-pheromone

tatacccccа aggttcctta catgtgt

B) *mfm2*$^+$-gene

Sequence of the mfm2-pre-protein

MDSIATNTHSSSIVNAYNNNPTDVVKTQNIKNYTPKVPYMCVIA

Sequence of the mfm2$^+$-gene

atggactcca ttgcaactaa cactcattct tcatccattg tcaatgccta caacaacaat
cctaccgatg ttgtaaaaac tcaaaacatt aaaaattata ctccaaaggt tccttatatg
tgtgtaattg cttaa

mfm2 mature M-pheromone

YTPKVPYMC

DNA-Sequence of the mature mfm2 M-pheromone

tata ctccaaaggt tccttatatg tgt

C) *mfm3*$^+$-gene

Sequence of the mfm3-pre-protein

MDSMANTVSSSVVNTGNKPSETLNKTVKNYTPKVPYMCVIA

Sequence of the mfm3$^+$-gene

atggactcaa tggctaacac tgtttcttcc tccgtcgtta acactggcaa caagccttct
gaaactctta acaagactgt taagaattat acccccaagg ttccttacat gtgtgtcatt gcataa

mfm3 mature M-pheromone

YTPKVPYMC

DNA-Sequence of the mature mfm3 M-pheromone

tat acccccaagg ttccttacat gtgt

Fig. 10

Genomic sequence of the *RodA* gene

ATGAAGTTCT CCATTGCTGC CGCTGTCGTT GCTTTCGCCG CCTCCGTCGC GGCCCTCCCT CCTGCCCATG
ATTCCCAGTT CGCTGGCAAT GGTGTTGGCA ACAAGGGCAA CAGCAACGTC AAGTTCCCTG TCCCCGAAAA
CGTGACCGTC AAGCAGGCCT CCGACAAGTG CGGTGACCAG GCCCAGCTCT CTTGCTGCAA CAAGGCCACG
TACGCCGGTG ACACCACAAC CGTTGATGAG GGTCTTCTGT CTGGTGCCCT CAGCGGCCTC ATCGGCGCCG
GGTCTGGTGC CGAAGGTCTT GGTCTCTTCG ATCAGTGCTC CAAGCTTGAT GTTGCTGGTC AGTTCTTCGA
AAATCACTTT CGTGATGCCC CAATGCTAAC AATTACCAGT CCTCATTGGC ATCCAAGATC TTGTCAACCA
GAAGTGCAAG CAAAACATTG CCTGCTGCCA GAACTCCCCC TCCAGCGCGG TATGTTCCCT TGTTTTACAG
CTTATTCACT TAAACCGATT AATCTAACAA CGCTCACAGG ATGGCAACCT TATTGGTGTC GGTCTCCCTT
GCGTTGCCCT TGGCTCCATC CTCTAA

DNA sequence of the open reading frame (ORF) of the *RodA* gene

ATGAAGTTCT CCATTGCTGC CGCTGTCGTT GCTTTCGCCG CCTCCGTCGC GGCCCTCCCT CCTGCCCATG
ATTCCCAGTT CGCTGGCAAT GGTGTTGGCA ACAAGGGCAA CAGCAACGTC AAGTTCCCTG TCCCCGAAAA
CGTGACCGTC AAGCAGGCCT CCGACAAGTG CGGTGACCAG GCCCAGCTCT CTTGCTGCAA CAAGGCCACG
TACGCCGGTG ACACCACAAC CGTTGATGAG GGTCTTCTGT CTGGTGCCCT CAGCGGCCTC ATCGGCGCCG
GGTCTGGTGC CGAAGGTCTT GGTCTCTTCG ATCAGTGCTC CAAGCTTGAT GTTGCTGTCC TCATTGGCAT
CCAAGATCTT GTCAACCAGA AGTGCAAGCA AAACATTGCC TGCTGCCAGA ACTCCCCCTC CAGCGCGGAT
GGCAACCTTA TTGGTGTCGG TCTCCCTTGC GTTGCCCTTG GCTCCATCCT CTAA

Sequence of the RodA protein

MKFSIAAAVV AFAASVAALP PAHDSQFAGN GVGNKGNSNV KFPVPENVTV KQASDKCGDQ AQLSCCNKAT
YAGDTTTVDE GLLSGALSGL IGAGSGAEGL GLFDQCSKLD VAVLIGIQDL VNQKCKQNIA CCQNSPSSAD
GNLIGVGLPC VALGSIL